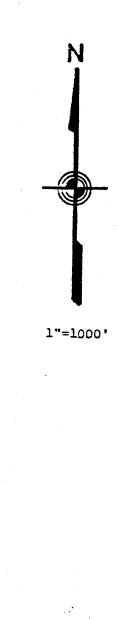
# STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OUR GAS AND MINING

Other instructions	on
reverse side)	

•	DIVISION OF OIL, G	AS, AND MININ	G			U-50439	and Serial No.
APPLICATION	FOR PERMIT TO	DRILL, DEE	PEN, OR F	PLUG B	ACK	6. If Indian, Allotted	e or Tribe Name
la. Type of Work			,			N/A 7. Unit Agreement N	
DRILL	. X <u>[X]</u>	DEEPEN	F	LUG BA	CK 🗌		ame
b. Type of Well Oil VV Gas			Single W70	M1114	iple 🔲	N/A 8. Farm or Lease Na	ame
Well LAN Wel	d Other		Single Zone	Zone			
2. Name of Operator		202/525	4051		-	Wintershal  9. Well No.	1 rederai
Wintershall Oi	il & Gas Corp.	303/595-	4051				
3. Address of Operator	C 11 000 F		00111 8	·		#10-31 •• Field and Pool, o	r Wildcat
56/5 DIC BIVO.	., Suite 200, En	ig lewood, LU	80111	<b>KECI</b>	=IVE	1 }	·
4. Location of Well (Repor	., Suite 200, Ent location clearly and in ac	cordance with any St	ate requirements.*	)	_	Wildcat 11. Sec., T., R., M.,	or Blk.
1090 1	FNL and 820' FEL		NE NE			and Survey or A	rea
At proposed prod. zone			bol.	1404 5	1 1985	Soc 10 T	39S - R26E
14. Distance in miles and c	lirection from nearest town	or post office*				12 County or Parris	h 13. State
	of Hatch Tradin		İ	DIVISIO	NUFO	IL San Juan	Utah
15. Distance from proposed		-	. No. of acres in le	GAS &	MINING	acres assigned	o can
location to nearest property or lease line,	ft. annway	•	4,886.38		to this		
(Also to nearest drlg. li	ne, if any) approx.		Proposed depth	1	20. Rotary	or cable tools	
18. Distance from proposed to nearest well, drilling or applied for, on this l	completed, ease, ft. None		6250' ( k	W		ary	
21. Elevations (Show whether			M	<i>,</i> , , , , , , , , , , , , , , , , , ,	- 100	22. Approx. date w	ork will start*
5421' GR	ci 22, 101, 010, 000,					December	
23.						December	10, 1500
<b></b>	Р	ROPOSED CASING A	AND CEMENTING	PROGRAM			
Size of Hole	Size of Casing	Weight per Foot	Setting I	Depth		Quantity of Cem	
12-1/4"	9-5/8"	<sup>.</sup> 36#	1890'			sx - or suf	
7-7/8"	5-1/2"	15.5#	6500'			sx or suffic	
					zone	s of interes	t.
Desert Creek If dry, the we	il & Gas Corp. r formations. If ell will be plug rder No. 1 attac	productive, gged and abar	casing will ndoned as p APPROVI	1 be ri er BLM ED BY AH DI\	un and and St	the well compate of Utah  TATE  OF	pleted.
IN ABOVE SPACE DESCI ductive zone. If proposal is preventer program, if any. 24.  Signed This space for Federal	RIBE PROPOSED PROGRA	onally, give pertinent	o deepen or plug b data on subsurface Consultant Vintershall	for	ata on prese and measur	ed and true vertical	nd proposed new pro- depths. Give blowout
Permit No	(3-037-3,	1227	Approval Date	!			
Approved byConditions of approval,	if any:	Title				Date	

# WELL LOCATION AND ACREAGE DEDICATION PLAT 1090 S.P.C Intersection CM 2-II & R-2 C-83 820 State line 263 S65°W 5434 200 NO 5427



Operator WINT	ERSHALL OE G	Well name	10-31	Fe deral
Section 10	Township 39 South	Range 26 Eost		Meridian SLM
Footages 1090	FN 8 820' FE	County/State Son Juan	UT	Elevation 5421
Formation Dedicated Acreage Requested by			lested by J Lowry	
-	t is true and correge and belief.	ect to the best		×*
01 my ////	,c une screet			
11- 11-'85	•	Gerald G. Hudd Uf44 5705	leston,	L.S.

### ONSHORE OIL & GAS ORDER NO. 1

Approval of Operations on Onshore Federal and Indian Oil and Gas Leases

> WINTERSHALL FEDERAL #10-31 1090' FNL and 820' FEL Sec. 10, T39S - R26E San Juan County, Utah



Prepared For:

WINTERSHALL OIL & GAS CORP.

By:

PERMITCO INC. 1020-15th Street, Suite 22-E Denver, Colorado 80202

### Copies Sent To:

4 - BIM - Moab, Utah

1 - BLM - Monticello, Utah

1 - Div. of Oil, Gas & Mining - SLC, Utah

4 - Wintershall Oil & Gas Corp. - Englewood, CO

1 - John Lowry - Towacc, Colorado



ONSHORE ORDER NO 1
Wintershall Oil Sas Corp.
Wintershall Federal 10-31
1090' FNL and 820' FEL
Sec. 10, T39S - R26E
San Juan County, Utah

### DRILLING PROGRAM

# ONSHORE OIL & GAS ORDER NO. 1 Approval of Operations on Onshore Federal and Indian Oil and Gas Leases

1. The surface formation and estimated formation tops to be encountered are as follows:

Depth	Subsea
145'	+5288
873 <b>'</b>	+4560'
1093'	+4340'
1148'	+4285'
2955	+2478'
3076'	+2357'
4808)2	+ 625'
5878'	- 445'
5 <b>9</b> 80 <b>'</b>	- 547'
6027'	- 594'
6137'	- 704'
6250 <b>'</b>	- 817'
	873' 1093' 1148' 2955' 3076' 48082 5878' 5980' 6027' 6137'

2. The estimated depths at which oil, gas, water or other mineral bearing zones are expected to be encountered are as follows:

Substance	Formation	Anticipated Depth
Water	Navajo	1148'
Oil/Gas	Desert Creek	6027 <b>'</b>
Oil/Gas	Ismay	5878 <b>'</b>

All fresh water and prospectively valuable minerals encountered during drilling, will be recorded by depth cased and cemented. All oil and gas shows will be tested to determine commercial potential.



ONSHORE ORDER NO Wintershall Oil was Corp. Wintershall Federal 10-31 1090' FNL and 820' FEL Sec. 10, T39S - R26E San Juan County, Utah

### DRILLING PROGRAM

3. Pressure control equipment will consist of a 10", 3000# BOP. (See BOP Diagram attached.)

BOP systems will be consistent with API RP 53. Pressure tests will be conducted before drilling out from under all casing strings which are set and cemented in place. Blowout preventer controls will be installed prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned. Preventers will be inspected and operated at least daily to ensure good mechanical working order, and this inspection recorded on the daily drilling report. Preventers will be pressure tested before drilling casing cement plugs.

### 4. a. Casing

The proposed casing program is as follows:

						or
Purpose	Depth	Hole Size		Grade	Type	Used
Surface	<del>0-189</del> 0'	12-1/4"	<del>9-5/</del> 8" <del>36#</del>	K-55	ST&C	New
Produc.	0-6250'	7-7/8"	5-1/2" 15.5#	J-55	LT&C	New

### b. Cement

The cementing program will be as follows:

Surface	Type and Amount
0-1890'	1150 Class B cement or sufficient to circulate to surface.
Production	Type and Amount
5250'-6250'	250 sx Class B (low fluid loss); or

Anticipated cement tops will be reported as to depth, not the expected number of sacks. The San Juan Resource Area will be notified one day prior to cementing surface casing and testing shoe. Call Mike Wade at 801/587-2201 or 801/587-2026.



New

Wintershall Oil & Sas Corp.
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### DRILLING PROGRAM

- c. Auxiliary Equipment will be as follows:
  - 1. Kelly cock.
  - 2. Float above the bit.
  - 3. A sub with a full opening valve will be on the floor when the kelly is not in use.
  - 4. Monitoring of the system will be done visually.
- 5. Drilling fluid will be as follows:

Interval	Mud Type	Mud Wt.	Visc.	F/L	PH
0-3000'	Gel Water	8.5-9.0	35	<b>N/</b> C	7
3000-6250'	Gel Chem	9.5-10.0	40		11

- 6. Coring, logging and testing programs are as follows:
  - a. Cores are possible in the Ismay and Desert Creek formations.
  - b. The logging program will consist of the following: A DIL/SFL and BHC Sonic will be run from base of surface casing to T.D. A Litho Density-Neutron, Dipmeter and Velocity Survey will also be run.
  - c. Drill Stem Tests will be run in the Ismay and Desert Creek formations if shows warrant.

Whether the well is completed as a dry hole or as a producer, "Well Completion or Recompletion Report and Log" (Form 3160-4) will be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. Two copies of all logs, core descriptions, core analysis, well-test data, geologic summaries, sample descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. If requested, samples (cuttings, fluids, and/or gases) will be submitted when requested by the District Manager.



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### DRILLING PROGRAM

- 7. Abnormal conditions, bottom hole pressures and potential hazards.
  - a. The maximum bottom hole pressure to be expected is 3500 psi.
  - b. Wintershall Oil & Gas Corp. plans to spud the Wintershall Federal #10-31 immediately upon approval of this application and intends to complete the well within approximately one month after the well has reached T.D.
  - c. The operator will contact the San Juan Resource Area at 801/587-2201, 48 hours prior to beginning any dirt work on this location.
  - d. No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the District Manager. If operations are to be suspended, prior approval of the District Manager will be obtained and notification given before resumption of operations.
  - e. The spud date will be reported orally to the San Juan Area Manager, a minimum of 24 hours before spudding. A Sundry Notice (Form 3160-5) will be sent within 24 hours of spudding, reporting the spud date and time. The Sundry will be sent to the District Manager. If spudding is on a weekend or holiday, the Sundry will be submitted on the following regular work day.
  - f. In accordance with Onshore Oil and Gas Order No. 1, this well will be reported on Form 9-329 "Monthly Report of Operations", starting with the month in which operations begin and continue each month until the well is physically plugged and abandoned. This report will be sent to the Moab BLM District Office, P. O. Box 970, Moab, Utah 84532.
  - g. If a replacement rig is planned for completion operations, a "Sundry Notice" (Form 3160-5) to that effect will be filed, for prior approval of the District Manager. All conditions of this approved plan are applicable during all operations conducted with the replacement rig. In emergencies, verbal approval can be given by the District Petroleum Engineer.



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### DRILLING PROGRAM

### 8. Notification requirements (cont.)

- h. If the well is successfully completed for production, then the District Manager will be notified when the well is placed in a producing status. Such notification will be sent by telegram or other written communication, not later than five business days following the date on which the well is placed on production.
- i. No well abandonment operations will begin without the prior approval of the District Manager. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the District Petroleum Engineer. A "Subsequent Report of Abandonment" (Form 3160-5), will be filed with the District Manager, within 30 days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration.
- j. Final abandonment will not be approved until surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the San Juan Area Manager or his representative, or the appropriate surface Manager.
- k. Approval to vent/flare gas during initial well evaluation will be obtained from the District Office. This preliminary approval will not exceed 30 days or 50 MMCF gas. Approval to vent/flare beyond this initial test period will require District Office approval pursuant to guidelines in NTL-4A.
- 1. Upon completion of approved plugging, a regulation marker will be erected in accordance with 43 CFR 3162.6. The following information will be permanently beaded—on with a welding torch: Fed, Well number, location by 1/4 1/4 section, township and range, lease number.
- m. A first production conference will be scheduled within 15 days after receipt of the first production notice. The San Juan Area Manager will schedule the conference.



WELL NAME:			• • •
LOCATION :		•	•
	••	•	•
		•	•
			•
7	7		•
		•	
9-5/8"	7 "Circulating	7 Line	
Drilling Nipple"			•
		<u> </u>	•
		•	•
pr.	<u></u>		•
		•	
		_	•
			•
		•	
ROP Bld Roms 10 "x 3000 W.P.S			
	=-n/ (-)	D.P. Roms 10 "x	3000 VI.P
		<i>a</i>	
		U/pi	Required
-Check Voive 2 "x 3000 W.P.		Hyd. Valve"	W.P. (Omit
Valve 2" 3000 W.P.		\ \ \tag{Valve_2_"}	3000 WP
Valve 2 " 3000 W.P. 7		<u> </u>	•
	ATTA MODERN		1
			MANIFOLD LINE
KILL LINE MANIFOLD			3000 WR (See Exhibit B")
Spool 10 "x 3000 W.P.		•	
Ground Level	:		

WELL HEAD B.O.P. 3000 ₩P.

⊠ Hydraulic

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### SURFACE USE PLAN

### ONSHORE OIL & GAS ORDER NO. 1

### Thirteen Point Surface Use Plan

### 1. Existing Roads

- a. The proposed well site is located ll miles east of Hatch Trading Post, Utah.
- b. Directions to the location from Hatch are as follows:

Take the Pleasant View Road (Hovenweep Road) east and proceed 6.5 miles until it intersects with the Old Bluff road. Turn right (south) and proceed along the Old Bluff road for two miles. Turn left (north) and continue on the Pleasant View Rd. for 5 miles. Turn right (south) onto new access (flagged) and proceed approximately 2000 feet to the location.

- c. The roads in the area are primarily county roads. See Maps #1 and #2.
- d. Improvement to the existing access will not be necessary.
- e. All existing roads will be maintained and kept in good repair during all drilling and completion operations associated with this well.
- f. An encroachment permit will be obtained from the San Juan County Road Department, 801/587-2231, ext. 43.
- g. The archeological site along the proposed access (flagged in blue will be avoided.

### 2. Planned Access Roads

- a. The last 2000 feet will be new access. The road will be flat bladed initially during construction and upgraded if production is established.
- b. The maximum total disturbed width will be 20 feet.



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### SURFACE USE PLAN

### 2. Planned Access Roads (cont.)

- c. The maximum grade will be 6%+.
- d. Water turnouts will be installed as needed. Culverts will be installed if necessary.
- e. If drilled during wet winter weather, portions of the access may require surfacing material to prevent maintenance problems. Material will be removed during reclamation.
- f. No cattlequards will be necessary.
- g. Surface disturbance and vehicular travel will be limited to the approved location and approved access route. Any additional area needed will be approved in advance by the San Juan Area Manager.
- h. The access road will be water barred or brought to Class III Road Standards within 60 days of dismantling of the drilling rig. If this time frame cannot be met, the San Juan Area Manager will be notified so that temporary drainage control can be installed along the access road.
- i. The Class III Road Standards which ensure drainage control over the entire road through the use of natural, rolling topography; ditch turnouts; drainage dips; outsloping; crowning; low water crossings; and culverts will be determined at the appropriate field inspection.

## 3. Location of Existing Wells Within a 1-Mile Radius of the Proposed Location. (See Map #3).

- a. Water Wells none
- b. Injection or disposal wells none
- c. Producing Wells none
- d. Drilling Wells none



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### SURFACE USE PLAN

### 4. Location of Tank Batteries and Production Facilities.

- a. All permanent structures (onsite for six months or longer) constructed or installed (including oil well pump jacks) will be painted a flat, nonreflective, earthtone color to match the standard environmental colors, as determined by the Rocky Mountain Five-State Interagency Committee. All facilities will be painted within six months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) will be excluded. The color will be desert tan.
- b. If a tank battery is constructed on this lease, it will be surrounded by a dike of sufficient capacity to contain 1-1/2 times the storage capacity of the battery.
- c. Tank batteries will be placed as shown on Diagram #1.
- d. All loading lines will be placed inside the berm surrounding the tank battery.
- e. Any necessary pits will be properly fenced to prevent any wildlife entry. The production pit will be flagged overhead.
- f. All site security guidelines identified in 43 CFR 3162.7 regulations will be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed.
- g. All off-lease storage, off-lease measurement, or commingling on-lease or off-lease will have prior written approval from the District Manager.
- h. Gas meter runs for each well will be located within 500 feet of the wellhead. The gas flowline will be buried from the wellhead to the meter and 500 feet downstream of the meter run or any production facilities. Meter runs will be housed and/or fenced.



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### SURFACE USE PLAN

### 4. Production Facilities (cont.)

i. The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries. Tests for meter accuracy will be conducted monthly for the first three months on new meter installations and at least quarterly thereafter. The San Juan Area Manager will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports will be submitted to the Moab District Office. All meter measurement facilities will conform with the API standards for liquid hydrocarbons and the AGA standard for natural gas measurement.

### 5. Location and Type of Water Supply

- a. All water needed for drilling purposes will be obtained from a private source.
- b. Water will be trucked to location over the county roads in the area.
- c. No water well is to be drilled on this lease.
- d. Use of water for this operation will approved by obtaining a temporary use permit from the Utah State Engineer, 801/637-1303, and by receiving permission from the land owner of surface management agency to use the land containing the water source.

### 6. Source of Construction Material

a. Road surfacing material will be obtained from a commercial source. Pad construction material will be native.



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### SURFACE USE PLAN

### 7. Methods of Handling Waste Disposal

- a. The reserve pit will not be lined unless pourous material is encountered. At least half of the capacity will be in cut.
- b. Three sides of the reserve pit will be fenced with four strands of barbed wire before drilling starts. The fourth side will be fenced as soon as the drilling is completed. The fence will be kept in good repair while the pit is drying.
- c. A trash pit will be constructed near the mud tanks and dug at least six feet into solid, undisturbed material. It will be totally enclosed with a fine wire mesh before the rig moves in. The road and pad will be kept litter free. If a trash cage is used, its contents will be hauled to an approved landfill.
- d. Produced waste water will be confined to a unlined pit for a period not to exceed 90 days after initial production. During the 90-day period, an application for approval of a permanent disposal method and location, along with the required water analysis, will be submitted for the District Manager's approval pursuant to Onshore Oil and Gas Order No. 3 (NTL-2B).
- e. A burning permit is required for burning trash between May 1 and October 31. This can be acquired by contacting the State Fire Warden, John Baker, at 801/587-2705.

### 8. Ancillary Facilities

a. There are no airstrips, camps, or other facilities planned during the drilling of the proposed well.

### 9. Well Site Layout

a. See Diagram #2 for rig layout. See Diagram #3 for cross section of drill pad. See Diagram #4 for cuts and fills.



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### SURFACE USE PLAN

### 9. Wellsite Layout (cont.)

- b. The location of mud tanks; reserve, burn and trash pits; pipe racks; living facilities and soil stockpiles will be shown on Diagram #2 and #4. The location will be laid out and constructed as discussed during the predrill conference.
- c. The top 10 inches of soil material will be removed from the location and stockpiled separate from the trees on the west side. Topsoil along the access will be reserved in place.
- d. Access to the well pad will be from the north.

### 10. Reclamation

- a. Immediately upon completion of drilling, all trash and debris will be collected from the location and surrounding area. All trash and debris will be disposed of in the trash pit and will then be compacted and buried under a minimum of two feet of compacted soil.
- b. The operator or his contractor will contact the San Juan Resource Area office in Monticello, Utah (801/587-2201) 48 hours before starting reclamation work that involves earthmoving equipment and upon completion of restoration measures.
- c. Before any dirt work to restore the location takes place, the reserve pit must be completely dry.
- d. All disturbed areas will be recontoured to blend as nearly as possible with the natural topography. This includes removing all berms and refilling all cuts.
- e. The stockpiled topsoil will be spread evenly over the disturbed area. All disturbed areas will be ripped 12 inches deep with the contour.



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### SURFACE USE PLAN

### 10. Reclamation of Surface (cont.)

f. Water bars will be built as follows to control erosion.

<u>Grade</u> <u>Spacing</u>		
2%	Every 200 Feet	
2-4%	Every 100 Feet	
4-5%	Every 75 Feet	
5+%	Every 50 Feet	

- g. Seed will be broadcast between October 1 and February 28 with the following prescription. A harrow or similar implement will be dragged over the area to assure seed cover.
  - 3 lbs/acre Crested wheatgrass (Agropyron desertorum)
  - 2 lbs/acre Fourwing Saltbush (Atriplex Canenscens)
  - 3 lbs/acre Western wheatgrass (Agropyron smithii)
  - 1 lbs/acre Wild sunflower (Helianthus annuus)
- h. After seeding is complete, the stockpiled trees will be scattered evenly over the disturbed areas. The access will be blocked to prevent vehicular access.
- i. The reserve pit and that portion of the location and access road not needed for production and production facilities will be reclaimed as described in the reclamation section. Enough topsoil will be kept to reclaim the remainder of the location at a future date. This remaining stockpile of topsoil will be seeded in place using the prescribed seed mixture.

### 11. a. Surface Ownership

Federal

b. Mineral Ownership

Federal



A Petroleum Permitting Company

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### SURFACE USE PLAN

### 12. Other Information

- a. There will be no change from the proposed drilling and/or workover program without prior approval from the District Manager. Safe drilling and operating practices must be used. All wells, whether drilling, producing, suspended, or abandoned will be identified in accordance with 43 CFR 3162.2.
- b. "Sundry Notice and Report on Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3164.
- c. The dirt contractor will be provided with an approved copy of the surface use plan.
- d. If subsurface cultural materials are exposed during construction, work in that spot will stop immediately and the San Juan Resource Area Office will be contacted. All people who are in the area will be informed by the operator that they are subject to prosecution for disturbing archeological sites or picking up artifacts. Salvage or excavation of identified archeological sites will be done by a BIM approved archeologist only if damage occurs.
- e. This permit will be valid for a period of one year from the date of approval. After permit termination, a new application will be filed for approval for any future operations.
- f. An archeological study was done by LaPlata Archaeological Consultants. No significant cultural resources were found and clearance is recommended. A copy of this report will be submitted directly by LaPlata Archeological Consultants.
- g. Your contact with the District Office is: Greg Nobel, 801/259-6111, P.O. Box 970, Moab, Utah 84532.

The Resource Area Manager's address is P.O. Box 7, Monticello, Utah 84535. Your contact is Rich McClure, 801/587-2201.



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### SURFACE USE PLAN

### 13. Lessee's or Operator's Representative and Certification

### Permit Matters

Permitco Inc. Lisa L. Green 1020-15th Street Suite 22-E Denver, Co. 80202 303/595-4051

### Drilling & Completion Matters

Wintershall Oil & Gas Corp. 5675 DTC Blvd. Suite 200 Englewood, CO 80111 303/694-0988 (W) - David Howell 303/565-7773 (W) - John Lowry

### Certification

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by Wintershall Oil & Gas Corp. and its contractors and subcontractors in conformity with the plan and the terms and conditions under which it is approved.

November 18, 1985

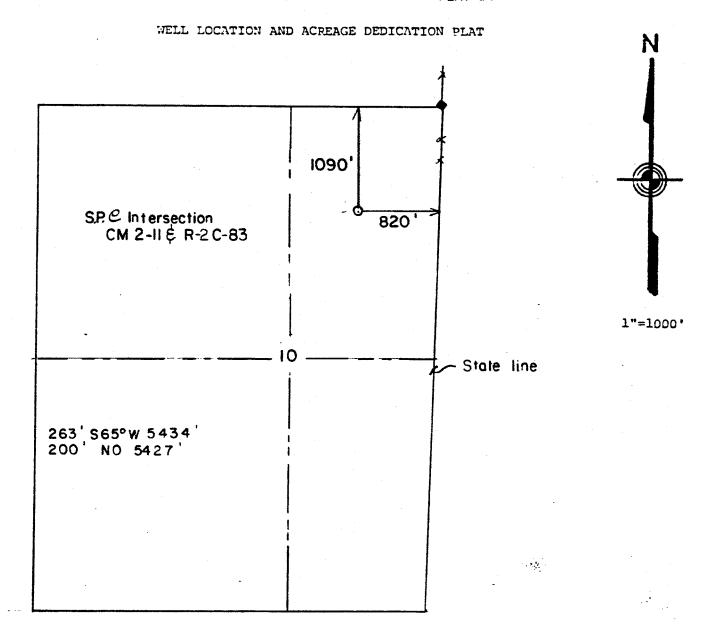
Date:

Lisa L. Green - PERMITCO INC.

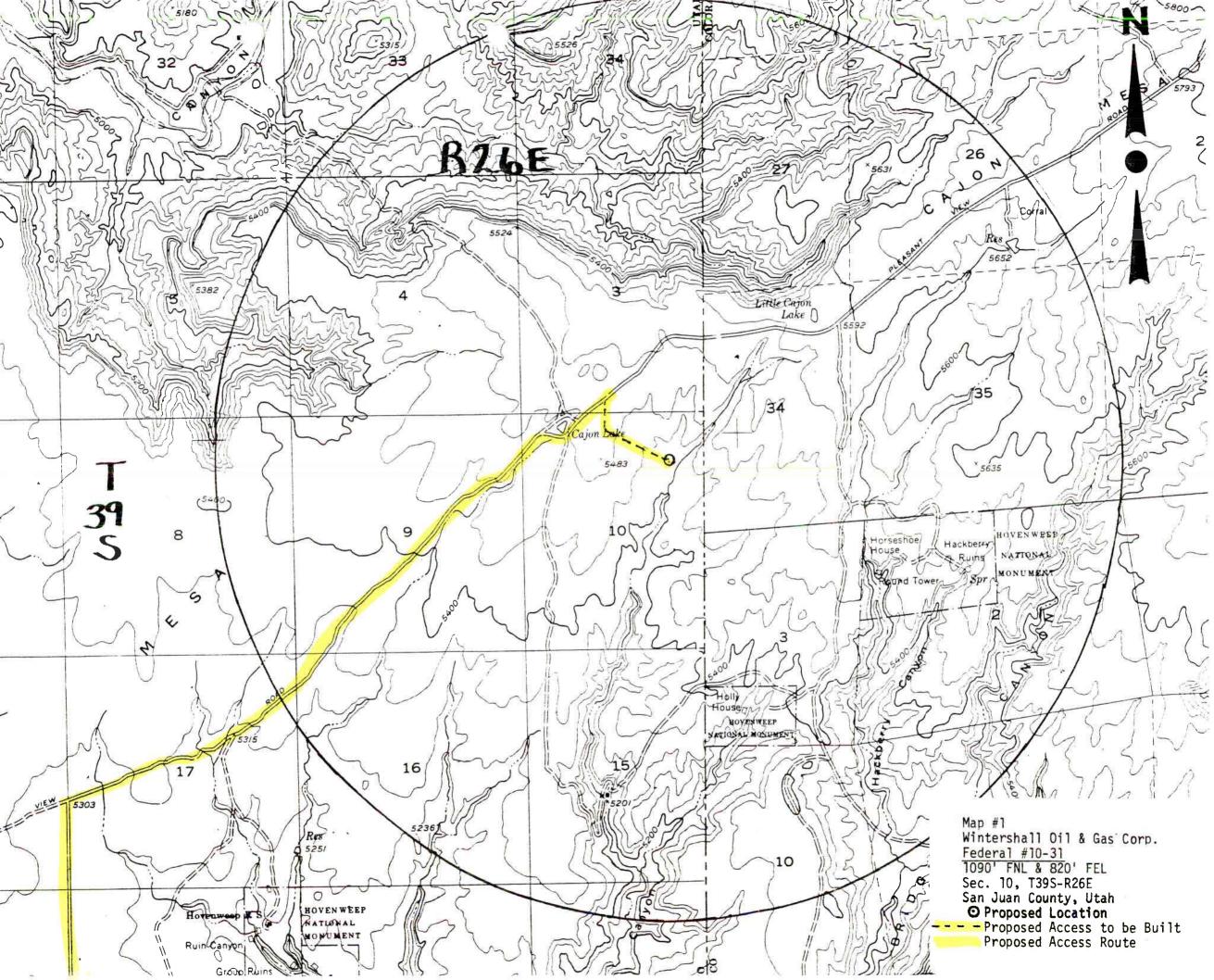
Authorized Agent for:

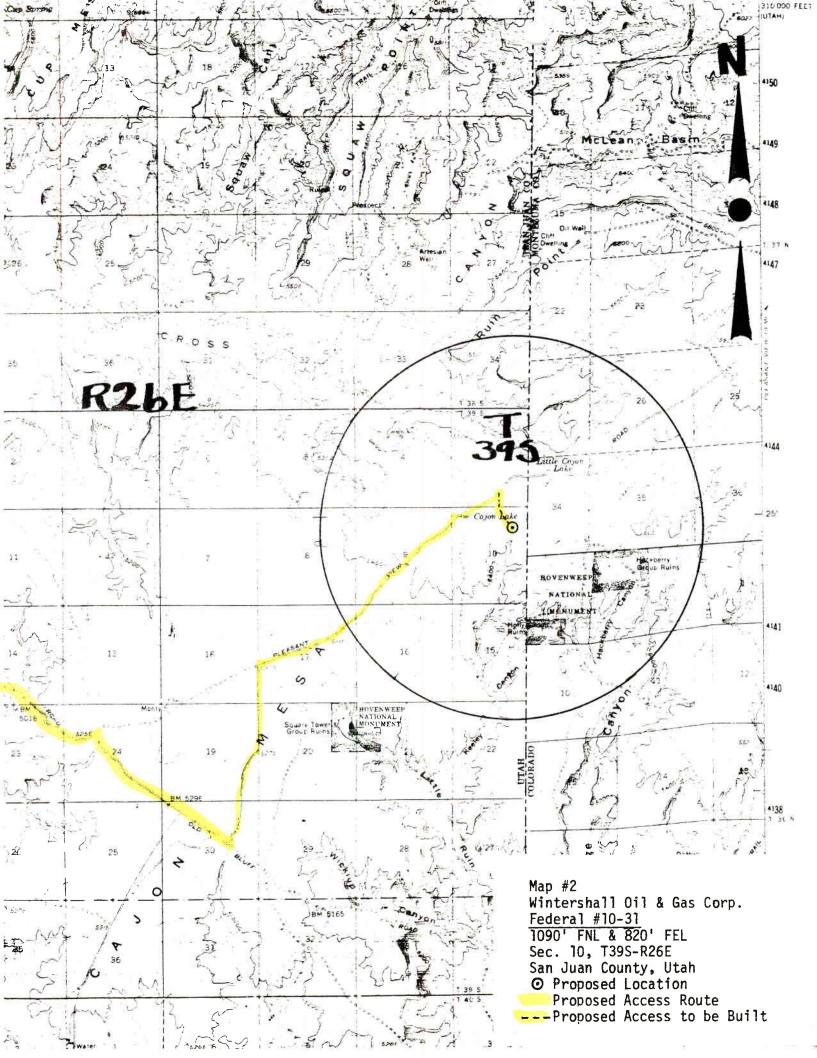
Wintershall Oil & Gas Corp.

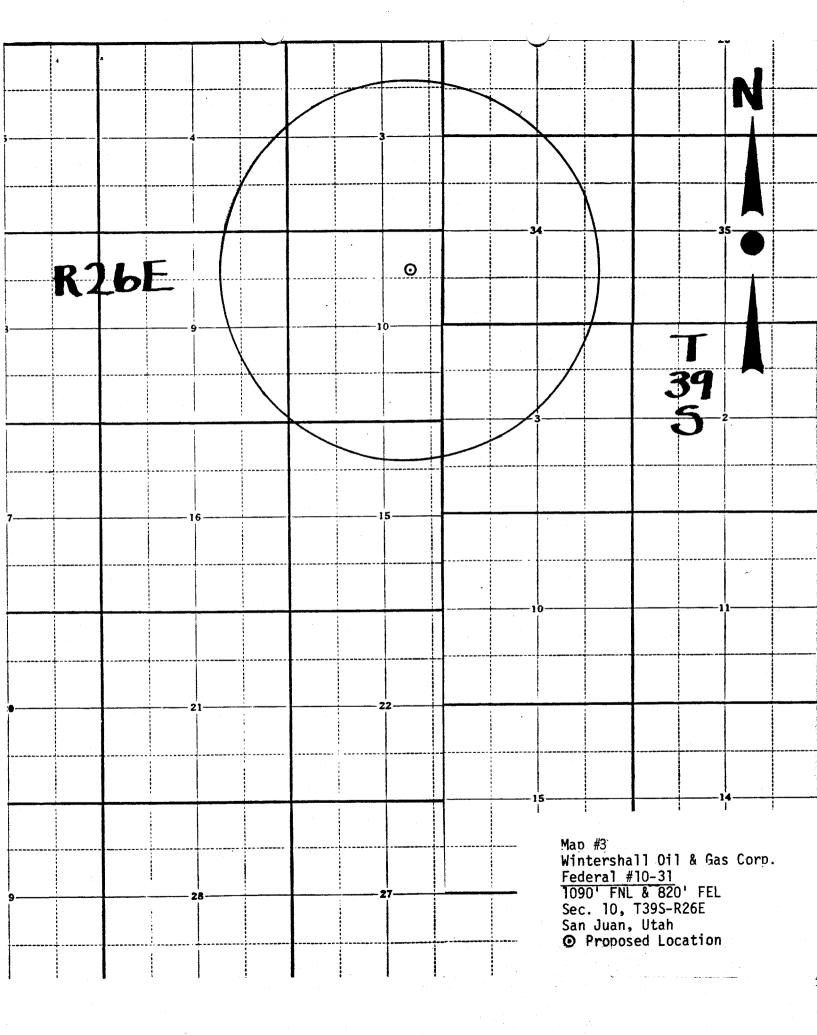


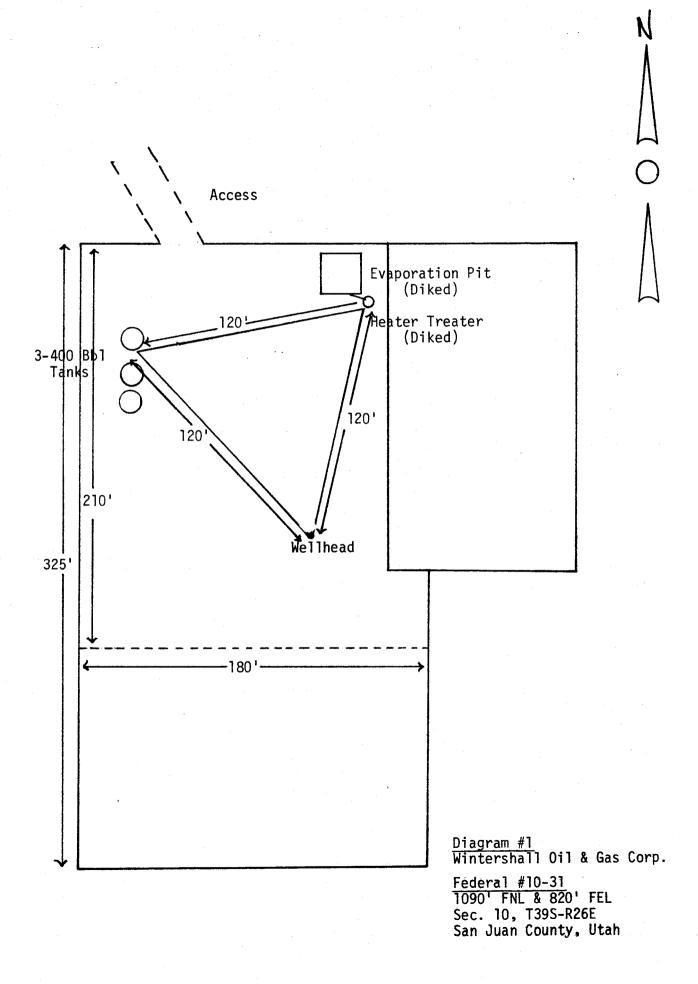


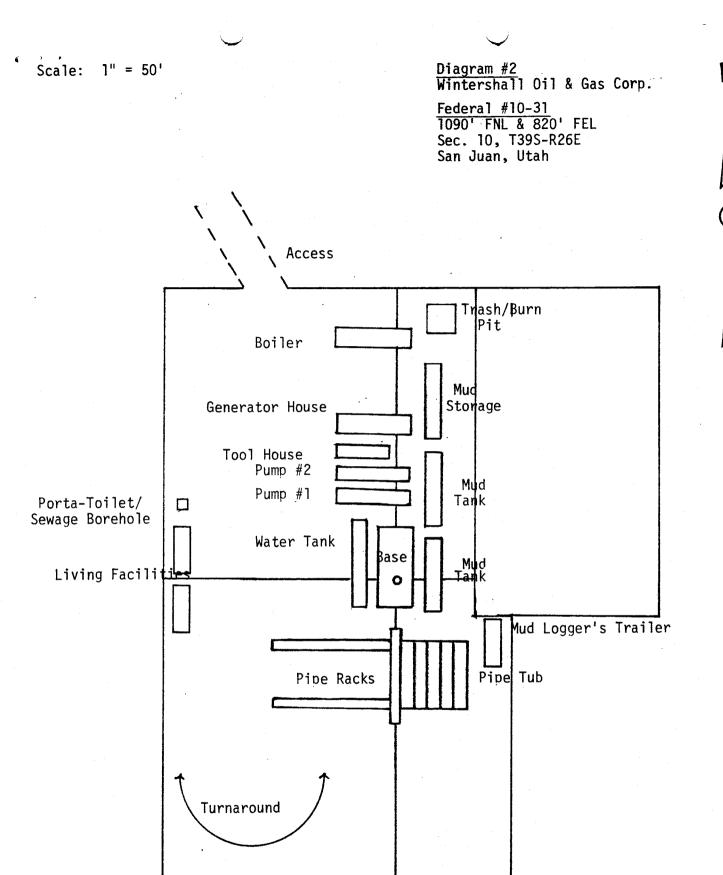
Operator WINT	ERSHALL OE	G Well nam	10-31 i	Federal
Section 10	Township 39 So	Range uth 26 Eo	Range Meridian 26 Eost SLM	
Footages 1090	FN 8 820' FE	County/State San Juan	UT	Elevation 5421'
Formation	Ded	cated Acreage	Requ	ested by J Lowry
-	t is true and co ge and belief.	rrect to the best		
11- 11-'85		Gerald G. Hu Utah 5703	uddleston,	L.S.







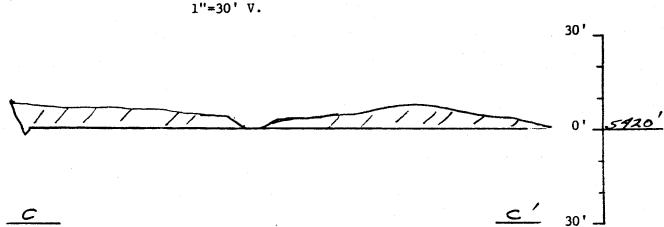


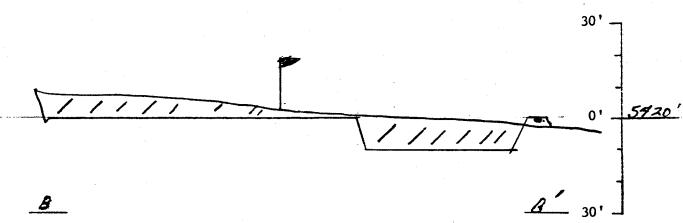


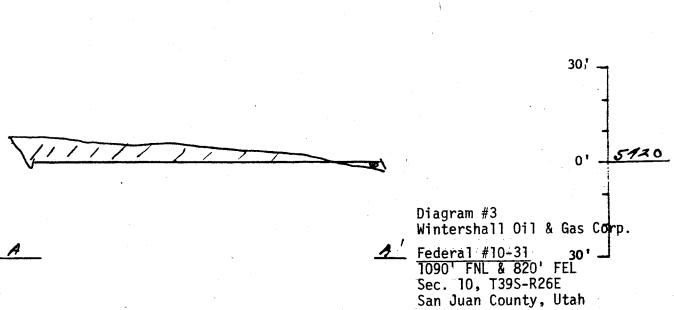
Well 10-31

Cut //// Fill Scales: 1"=50' H.

1.7 Vertical Exaggeration







OPERATOR Wintershall Oir	1 x Gan Coop	DATE 11-26-85
WELL NAME Wintershell Fer	l. 10-31	
SEC NENE 10 T 395		San Juen
43-037-31227 API NUMBER	1 1	PE OF LEASE
CHECK OFF:		
PLAT	BOND	NEAREST WELL
LEASE	FIELD	POTASH OR OIL SHALE
PROCESSING COMMENTS:  No other wells within 1000	,	
Ned water primit		
Exc. loc.		
	<del></del>	
	·	
APPROVAL LETTER:	•	
SPACING: A-3 UNIT	c_3	CAUSE NO. & DATE
c-3-b	c-3	<b>-c</b>
STIPULATIONS: 1- Water		
2- Exc. loc		

### RURNIT IN TO (Other instructions on reverse side)

Form approved. Budget Bureau No. 42-

### UNITED STATES DEPARTMENT OF THE INTERIOR

5. LEASE DESIGNATION AND SERIAL BO. U-50439 GEOLOGICAL SURVEY 6. IF INDIAN, ALLOTTEE OR TRIBE HAMB APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK N/A Is. TIPL OF WORK 7. CHIT AGREEMENT HAMB DRILL 🖾 DEEPEN [ PLUG BACK [ b. TIPE OF WELL N/A MULTIPLE SORE WELL XX SINGLE EOKE WELL XS. FARM OR LEASE BAME OTHER 2. NAME OF OPERATOR Wintershall Federal Wintershall Oil & Gas Corp. 9. WELL BO. (303)595-4051 3. ADDRESS OF OPERATOR #10-31 5675 DTC Blvd., Suite 200, Englewood, CO 80111 10. PIELD AND POOL, OR WILDCAT 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*) Wildcat 11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA 1090' FNL & 820' FEL At proposed prod. zone Sec. 10, T39S-R26E 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\* 12. COUNTY OR PARISH | 13. STATE 11 miles East of Hatch Trading Post San Juan Utah 13. DISTANCE FROM PROPOSED.\*
LOCATION TO NEAREST
PROPERTY OR LEASE LINE, 16. NO. OF ACRES IN LEASE NO. OF ACRES ASSIGNED TO THIS WELL (Also to nearest drig, unit line, if any) Approx. 6901 4,886.38 15. DISTANCE FROM PROPOSED LOCATIONS
TO NEAREST WELL, DRILLING, COMPLETED, 19. PROPOSED DEPTH 20. BOTABY OR CABLE TOOLS None 6250' Rotary OR APPLIED FOR, ON THIS LEASE, FT. 21. ELEVATIONS (Show whether DF, RT. GR, etc.) 22. APPROX. DATE WORK WILL START 5421' GR December 15, 1985 23 PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	RIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	9 5/8"	36#	1890'	1150 sxs - or sufficient to circ
7 7/8"	5 1/2"	15.5#	6250'	250 sxs - or sufficient to
				cover zones of interest

### RECEIVED

DEC 23 1985

DIVISION OF OIL GAS & MINING

IN ABOVE SPACE DESCRIPE PROPOSED PROGRAM: If proposed is to deepen or plug back, give data on present productive sone and proposed new productive zone. If proposel is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any, 24.

Consultant for

Wintershall Oil & Gas Corp page

(This space for Federal or State office use)

/S/ GENE NODINE

DISTRICT MANAGER

2 0 DEC 1985

CONDITIONS OF APPROVAL, IF ANY :

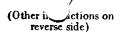
PERMIT NO.

NOTICE OF APPROVAL

State of Utah

FLARING OR VENTING OF GAS IS SUBJECT OF NTL 4-A DATED 1/1/80

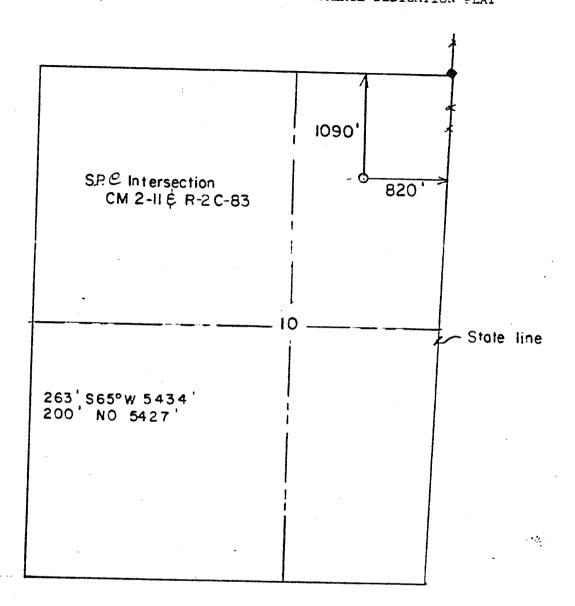
# STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING



	DIVISION OF O	L, GAS, AND MINI	NG		5. Lease Designation a U-50439	nd Serial No.
APPLICATION	FOR PERMIT	TO DRILL, DE	EPEN, OR PL	UG BACK	6. If Indian, Allottee of	or Tribe Name
	LL X(X)	DEEPEN [	PL	UG BACK [	N/A 7. Unit Agreement Nam	ne
b. Type of Well Oil XX G. Well XX	as Other		Single XX	Multiple	N/A 8. Farm or Lease Nam	le
2. Name of Operator	ell U Other	:	Zone AA	Zone L	Wintershall	Federal
Wintershall (	)il & Gas Corp	303/595	-4051		9. Well No.	reactur
3. Address of Operator					#10-31	
5675 DTC Blvd	i., Suite 200.	Englewood, CO	80111		10. Field and Pool, or	Wildcat
4. Location of Well (Repo					Wildcat	
1090'	FNL and 820'	FEL			11. Sec., T., R., M., or and Survey or Area	Blk.
At proposed prod. zone						
14. Distance in miles and	direction from nearest	town or nost office*			Sec. 10, T3	95 - R26E
	of Hatch Tra					
15. Distance from propose			6. No. of acres in leas	e 17. No. o	San Juan of acres assigned	<u>Utah</u>
location to nearest property or lease line,	ft.	ox. 690'	4,886.38		s well	
(Also to nearest drig.  18. Distance from propose			Proposed depth	20 Rotar	y or cable tools	
to nearest well, drillin or applied for, on this	g. completed,	lone	6250'		tary	
21. Elevations (Show whet		ione	0230		22. Approx. date wor	k will start*
5421' GR					December 1	5, 1985
23.		PROPOSED CASING	AND CEMENTING P	ROGRAM		
Size of Hole	Size of Casing	Weight per Foot	S-44: D		Quantity of Cemen	
12-1/4"	9-5/8"	36#	Setting Der		) sx - or suff	
7-7/8"	5-1/2"	15.5#	6500'		sx or suffici	
Wintershall (	oil & Gas Corp	o. proposes to	drill a well		es of interest o test the Ism	
Desert Creek	formations. ell will be p	If productive, olugged and aba	casing will	be run and	the well comp	leted. equirement
					DEC 2 3 19	985
			•		division o Gas & Min	
IN ABOVE SPACE DESC ductive zone. If proposal preventer program, if any.						
Sirner Sua	y She	/	Consultant fo Wintershall (	or Dil & Gas Co	orp. Date 11/	18/85
(This space for Federa	l or State office uses					
Permit No	<u></u>		Approval Date			
Approved by		Title		***************************************	Date	

1"=1000'

### WELL LOCATION AND ACREAGE DEDICATION PLAT



Operator WINTE	ERSHALL OE G	Well nar	ne 10-31	Fe deral	1
Section 10 Footages	Township 39 Sout	the same of the sa			
1090 'F	NE 820' FE	Son Juan	UT	Elevation 5421	
Formation	Dedic	ated Acreage	Requ	lested by J Lowry	
The above plat of my knowledge	is true and corr and belief.	ect to the best		•	
•					
11- 11-'85	•	Gerald G. Hu Utah S705	ddleston	L.S.	



355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

December 2, 1985

Wintershall Oil & Gas Corporation 5675 DTC Blvd., Suite 200 Englewood, Colorado 80111

### Gentlemen:

Re: Well No. Wintershall Federal 10-31 - NE NE Sec. 10, T. 39S, R. 26E 1090' FNL, 820' FEL - San Juan County, Utah

Approval to drill the above-referenced oil well is hereby granted in accordance with Rule C-3(c), General Rules and Regulations and Rules of Practice and Procedure, subject to the following stipulations:

- 1. Prior to commencement of drilling, receipt by the Division of evidence providing assurance of an adequate and approved supply of water as required by Chapter 3, Title 73, Utah Code Annotated.
- 2. Submittal to the Division of information justifying the necessity for an exception location and verification of ownership within a radius of 500 feet of the proposed location.

In addition, the following actions are necessary to fully comply with this approval:

- Spudding notification to the Division within 24 hours after drilling operations commence.
- 2. Submittal to the Division of completed Form OGC-8-X, Report of Water Encountered During Drilling.
- 3. Prompt notification to the Division should you determine that it is necessary to plug and abandon this well. Notify John R. Baza, Petroleum Engineer, (Office) (801) 538-5340, (Home) 298-7695, or R. J. Firth, Associate Director, (Home) 571-6068.
- 4. Compliance with the requirements and regulations of Rule C-27, Associated Gas Flaring, General Rules and Regulations, Oil and Gas Conservation.

Page 2 Wintershall Oil & Gas Corporation Well No. Wintershall Federal 10-31 December 2, 1985

5. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-037-31227.

Sincerely,

R. J. Firth

Associate Director, Oil & Gas

as

Enclosures

cc: Branch of Fluid Minerals

### DIVISION OF OIL, GAS AND MINING

# NAVE OF COMPANY: WINTERSHALL PETROLEUM CORP. WELL NAVE: Wintershall Federal 10-31 SECTION\_NE\_NE\_10\_TOWNSHIP\_39S\_\_RANGE\_26E\_\_COUNTY\_San\_Juan DRILLING CONTRACTOR\_\_Coleman RIG #\_\_3 SPUDDED: Date\_\_1-1-86\_\_ TIME\_\_1:00\_AM\_\_ HOW\_\_\_Rotary\_\_ DRILLING WILL COMMENCE\_\_\_\_\_ REPORTED BY\_\_\_\_Rosie\_Mazzei Telephone #\_\_\_\_303-694-0988\_\_\_\_\_

<u>SPUDDING INFORMATION</u> API #43-037-31227

# UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

GEOLOGICAL SURVEY	6. IF INDIAN, ALLOTTEE OR TRIBE NAME NONE
SUNDRY NOTICES AND REPORTS ON WELLS (Do not use this form for proposals to drill or to deepen or plug back to a different	7. UNIT AGREEMENT NAME None
1. oil ca gas ca	8. FARM OR LEASE NAME Wintershall Federal
2. NAME OF OPERATOR	9. WELL NO. #10-31
Wintershall Petroleum Corporation 3. ADDRESS OF OPERATOR	10. FIELD OR WILDCAT NAME Wildcat
5675 DTC Blvd, #200, Englewood, CO 80111 4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Section 10, T39S-R26E
AT SURFACE: 1090' FNL & 820' FEL AT TOP PROD. INTERVAL: AT TOTAL DEPTH:	12. COUNTY OR PARISH 13. STATE San Juan Utah 14. API NO.
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA	43-037-31227 15. ELEVATIONS (SHOW DF, KDB, AND WD)
REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF:  TEST WATER SHUT-OFF	(NOTE: Report results of multiple completion or zone change on Form 9-330.)
(other) Change in Operator's Name	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Please change name of operator from Wintershall Oil and Gas Corporation to Wintershall Petroleum Corporation.

# RECEIVED

5. LEASE

U-50439

JAN 03 1986

DIVISION OF OIL

Subsurface Safety Valve: Manu. and Type	ţ	Set @	Ft.
18. I hereby certify that the foregoing is true as	nd correct	,	
SIGNED Nau- P. Howell	THILE Operations Manager DATE	12/31/85	<del></del>
(This	s space for Federal or State office use)		
APPROVED BY	TITLE DATE	· · · · · · · · · · · · · · · · · · ·	
age litab ocup			

cc: Utah OGMD

Form 9-331

Form Approved.
Budget Bureau No. 42-R142

DEC. 1973		
UNITED STATES	5. LEASE	
DEPARTMENT OF THE INTERIOR	U-50439	
GEOLOGICAL SURVEY	6. IF INDIAN, ALLOTTEE OR TRIBE NAME None	
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill or to deepen or plug back to a different	7. UNIT AGREEMENT NAME NONe	
eservoir. Use Form 9–331–C for such proposals.)	8. FARM OR LEASE NAME	
1. oil gas other	Wintershall Federal 9. WELL NO.	
2. NAME OF OPERATOR	#10-31	
Wintershall Petroleum Corporation 3. ADDRESS OF OPERATOR	10. FIELD OR WILDCAT NAME Wildcat	
5675 DTC Blvd, #200, Englewood, CO 8011	11. SEC., T., R., M., OR BLK. AND SURVEY OF AREA Section 10, T39S-R26E	
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)		
AT SURFACE: 1090' FNL & 820' FEL AT TOP PROD. INTERVAL:	12. COUNTY OR PARISH 13. STATE	
AT TOTAL DEPTH:	San Juan   Utah	
6. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE		
REPORT, OR OTHER DATA	15. ELEVATIONS (SHOW DF, KDB, AND WD)	
REQUEST FOR APPROVAL TO:  SUBSEQUENT RECEIVED TO STAND THE CONTROL OF THE CONTROL	(NOTE: Report results of multiple completion or zone change on Form 9–330.)  FOIL	
other) Well Status X	•	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Spudded well at 1 A.M., 1/1/86. Ran 1 jt., 13-3/8", 61# casing and set at 50'. Cemented with 100 sxs Class B cement. Circulated 2 bbls good cement to surface.

Current operation - drilling ahead at 1868'.

18. I hereby certify trai	the foregoing is tr	ue and correct			
SIGNED AT	assei	τιτιε <u>Operations</u> Α	esistantare _	1/3/86	
	00	(This space for Federal or State of	ffice use)		
APPROVED BYCONDITIONS OF APPROVE		TITLE	DATE		,

cc: Utah OGMD

5. LEASE U-50439

# UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

GEOLOGICAL SURVEY	6. IF INDIAN, ALLOTTEE OR TRIBE NAME None
SUNDRY NOTICES AND REPORTS ON WELLS	7. UNIT AGREEMENT NAME None
(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)  1. oil	8. FARM OR LEASE NAME Wintershall Federal
well ☑ well □ other  2. NAME OF OPERATOR	9. WELL NO. #10-31
Wintershall Petroleum Corporation 3. ADDRESS OF OPERATOR	10. FIELD OR WILDCAT NAME Wildcat
5675 DTC Blvd, #200, Englewood, CO 80111 4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17	AREA
below.) AT SURFACE: 1090' FNL & 820' FEL	Section 10, T39S-R26E  12. COUNTY OR PARISH 13. STATE
AT TOP PROD. INTERVAL: AT TOTAL DEPTH:	San Juan Utah  14. API NO.
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA	43-037-31227  15. ELEVATIONS (SHOW DF, KDB, AND WD) 5421'GR; 5435' KB
REQUEST FOR APPROVAL TO:  TEST WATER SHUT-OFF  FRACTURE TREAT  SHOOT OR ACIDIZE  REPAIR WELL  PULL OR ALTER CASING  MULTIPLE COMPLETE  CHANGE ZONES  ABANDON*  (other)  17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state including estimated date of starting any proposed work. If well is dimeasured and true vertical depths for all markers and zones pertinen	(NOTE: Report results of multiple completion or zone change on Form 9–330.)  /  e all pertinent details, and give pertinent dates irectionally drilled, give subsurface locations and to this work.)*
Ran 49 jts., 9-5/8", 36#, J-55 surface careful casing with 200 sxs Class B, 2% Carent operation as of 1/10/86 - drilling	aCl, 1/4# per sx Flocele.
	•
Subsurface Safety Valve: Manu. and Type	Set @ Ft
18. I hereby cartify that the foregoing is true and correct	

cc: Utah OGMD

APPROVED BY \_\_\_\_\_\_\_\_ CONDITIONS OF APPROVAL IF ANY:

(This space for Federal or State office use)

TITLE Operations Assistant

Form A	pproved		
Budget	Bureau	No.	42-R142

UNITED STATES	Douget buleau 110. 42-R1424
DEPARTMENT OF THE INTERIOR	5. LEASE U-50439
GEOLOGICAL SURVEY	6. IF INDIAN, ALLOTTEE OR TRIBE NAME None
SUNDRY NOTICES AND REPORTS ON WELLS	7. UNIT AGREEMENT NAME None
(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)	8. FARM OR LEASE NAME Wintershall Federal
1. oil 🛛 gas 🗆 other	9. WELL NO.
2. NAME OF OPERATOR	#10-31
Wintershall Petroleum Corporation  3. ADDRESS OF OPERATOR	10. FIELD OR WILDCAT NAME Wildcat
5675 DTC Blvd, #200, Englewood, CO 80111 4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
below.) AT SURFACE: 1090' FNL & 820' FEL	Section 10, T39S-R26E  12. COUNTY OR PARISH 13. STATE
AT TOP PROD. INTERVAL: AT TOTAL DEPTH:	San Juan Utah
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE.	14. API NO.
REPORT, OR OTHER DATA	43-037-31227  15. ELEVATIONS (SHOW DF, KDB, AND WD)
REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF:	5421'GR; 5435' KB
TEST WATER SHUT-OFF	
PULL OR ALTER CASING	(NOTE: Report results of multiple completion or zone change on Form 9–330.)
ABANDON•	
17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state including estimated date of starting any proposed work. If well is dimeasured and true vertical depths for all markers and zones pertinent	irectionally drilled, give subsurface locations and
Reached total depth of 6133' on $1/17/86$ .	Preparing to log well.
	RECEIVED
	JAN 2 1 1986
	DIVISION OF OIL  GAS & MINING
Subsurface Safety Valve: Manu. and Type	Set @ Ft.
18. I hereby certify that the foregoing is true and correct	
SIGNED Mail Hewell TITLE Operations Mgs	r. DATE1/17/86
(This space for Federal or State offi	ce use)
APPROVED BY TITLE TOTAL CONDITIONS OF APPROVAL IF ANY:	DATE

cc: Utah OGMD

RECEIVED

JAN24 1986

IGT

DIVISION OF OIL GAS & MINING

WINTERSHALL OIL & GAS CORP. FEDERAL 10-31 STATELINE SEC. 10, T39S-R26E SAN JUAN COUNTY, UTAH

INTERMOUNTAIN GEO-TECH, INC. P. O. BOX 158 DELTA, CO 81416 303-874-7762

January 19, 1986

The Wintershall, Federal 10-31 Stateline well was spudded on 12/31/85. 13 3/8" casing was set at 50 ft. 9 5/8" casing was set at 1975 ft.

IGT Unit #3 was on location, rigged up and logging on 1/6/86 at a depth of 3880 ft. Drilling went smoothly averaging 350 ft. per day until a bit trip was run on 1/8/86.

Drilling resumed and continued averaging 320 ft. per day until 1/11/86 when another bit trip was made. Drilling resumed and the Upper Ismay formation was encountered on 1/13/86 at a depth of 5803 ft. The Upper Ismay was drilled, samples were circulated up and found to contain evaporites. A chloride check of the mud indicated salt.

At this time the decision was made to change the mud system from fresh water mud to saturated salt water mud. Drilling did not resume until the afternoon of 1/15/86. Total depth was reached on 1/16/86 at 6133 ft. Electric logs were run on 1/16/86 and 1/17/86 immediately followed by a velocity survey.

IGT Unit #3 was released on 1/17/86.

Jan A. Johnson Geologist - IGT

#### TABLE OF CONTENTS

1. SUMMARY OF DAILY ACTIVE 2. BIT RECORD 3. DEVIATION SHEET 4. FORMATION TOPS 5. DST AND SHOW SHEET	TTY 1 2 3 4 5
	FINAL MUDLOG ( 5"=100') FINAL MUDLOG (2.5"=100')
DRILLING CONTRACTOR:	COLEMAN RIG #3 FARMINGTON, NEW MEXICO
DRILLING FOREMAN:	MR. LEO LEWIS
PUSHER:	MR. GLEN STORIE
	MS. JAN JOHNSON - MR. DAVE MEADE INTERMOUNTAIN GEO-TECH, INC. P. O. BOX 158 DELTA, CO 81416
	MR. JOHN HUNTER HUNTER MUD CO. FARMINGTON, NEW MEXICO
	MR. MATT GARBER SCHLUMBERGER FARMINGTON, NEW MEXICO
	MR. RIC KOPP WINTERSHALL OIL & GAS CORP.

DENVER, CO

## SUMMARY OF DAILY ACTIVITY

DATE	ACTIVITY	MIDNITE DEPTH	24 HOUR FOOTAGE
1/06/86	IGT UNIT #3 ON LOCATION, RIGGED UP, LOGGING		
1/07/86	DRLG, SURV, DRLG	3893 <b>'</b>	426'
1/08/86	DRLG, BIT TRIP, DRLG	4319'	256 <b>'</b>
1/09/86	DRLG, SURV	4575	336 <b>'</b>
1/10/86	SURV, DRLG	4911'	319'
1/11/86	DRLG, BIT TRIP & SURV, DRLG	5230 ¹	173'
1/12/86.	DRLG	5403'	233
1/13/86	DRLG, CIRC SPL, DRLG, CIRC BTMS UP, TOH TO CHANGE MUD SYSTEM	5636	238 '
1/14/86	TOH TO CHANGE MUD SYSTEM, CHANGE OUT MUD	5874'	0
1/15/86	CHANGE OUT MUD SYSTEM, TIH, DRLG	58 <b>74</b> '	130 <b>'</b>
1/16/86	DRLG, "E" LOGS	6004'	127'
1/17/86	"E" LOGS, VELOCITY SURV, IGT UNIT #3 RELEASED	6131'	eran sano

## BIT RECORD

BIT	MAKE	SIZE	TYPE	DEPTH OUT	FOOTAGE USED	HOURS
1	STC	124"	F-4	50 <b>'</b>	50'	1½
2	нтс	17½"	21J	50 <b>'</b>	50'	1½
3	STC	12½"	F-4	1986'	1936'	38½
4	STC	7 7/8"	F-27	4412'	2426'	88½
5	VAREL	7 7/8"	V537	5353'	941'	69
6	VAREL	7 7/8"	V537	5873'	520'	49
7	VAREL	7 7/8"	V537	6133'	260'	22½

## DEVIATION SHEET FOR WELL. . . .

DEPTH	DEVIATION (DEV)
50'	<sup>2</sup> 0
545'	1 0
746'	3 <sub>4</sub> 0
1267'	1 <sub>4</sub> 0
1782'	1 0
2264'	1 O
2733 <b>'</b>	3 O
3236'	1 0
3691'	3 O
4195'	1½°
4412'	1 0
4911'	1 0
5353'	1 0
5873'	1 <sub>4</sub> O

## FORMATION TOPS

FORMATION	SAMPLE TOP	E-LOG TOP	SUB-SEA
HONAKER TRAIL	4706 <b>'</b>	4824'	
PARADOX SHALE	5772 <b>'</b>	5782?	
UPPER ISMAY	5803'	5802'	-368'
HOVENWEEP SHALE	5916'	5926 <b>'</b>	-492
LOWER ISMAY	5918'	5940'	-506
GOTHIC SHALE	5992'	6002'	-568'
DESERT CREEK	6006'	6012'	<b>-</b> 578 <b>'</b>
CHIMNEY ROCK	6081'		
AKAH	6101'	6098?	
PARADOX EVAPORITES	6130'		

## (IGT) DST & SHOW SHEET

DRILLING RATE 51/2  TOTAL GAS UNITS  METHANE % ETHANE %  PROPANE %  BUTANE (ISO) %  BUTANE (NOR) %  PENTANE %  SAMPLE LITHOLOGY LS-WH-  OCC CLN TT-TR I  SAMPLE FIOR AND CUT TR S  G STMG MKY-CUT  DST # FROM  INITIAL HYDPOSTATIC	BF MICXL-CRPY NTXL-RR PP VI	29 Units 0.63% 0.14% 0.05% XL VFXL-GRAN IP RT UG POR MFRM-MHD D FLOR TR BRN-DK B	AFTER SHOW  5½ min/ft  1 Unit  tr   HY-DKY IP FOS IP V SL AND  RN STN-RR DD OIL STN
TOTAL GAS UNITS  METHANE %  ETHANE %  PROFANE %  BUTANE (ISO) %  BUTANE (NOR) %  PENTANE %  SAMPLE LITHOLOGY LS-WH- OCC CLN TT-TR I  SAMPLE FIOR AND CUT TR S C STMG MKY-CUT  DST # FRO	O	29 Units 0.63% 0.14% 0.05% XL VFXL-GRAN IP RT UG POR MFRM-MHD D FLOR TR BRN-DK B	1 Unit tr HY-DKY IP FOS IP V SL ANI
METHANE %  ETHANE %  PROPANE %  BUTANE (ISO) %  BUTANE (NOR) %  PENTANE %  SAMPLE LITHOLOGY LS-WH- OCC CLN TT-TR I  SAMPLE FLOR AND CUT TR S G STMG MKY-CUT  DST # FRO	BF MICXL-CRPX NTXL-RR PP VI	0.63% 0.14% 0.05% XL VFXL-GRAN IP RT UG POR MFRM-MHD D FLOR TR BRN-DK B	tr   HY-DKY IP FOS IP V SL AND RN STN-RR DD OIL STN
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OCC CLN TT-TR I  SAMPLE FIOR AND CUT TR S  G STMG MKY-CUT  DST # FRO  INITIAL HYDPOSTATIC	NTXL-RR PP VI	UG POR MFRM-MHD D FLOR TR BRN-DK B	RN STN-RR DD OIL STN
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SAMPLE CYAMBER RECOVERY			
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DRILL PIPE- BOTTOM-R/W=	Ω	SAMPLE	CHMBR R/W= at °F,
PIT MUD-R/W= at OF		•	

## RECEIVED

JAN24 1986

DIVISION OF OF GAS & MINING

# STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING 4241 State Office Building Salt Lake City, UT 84114

## \*REPORT OF WATER ENCOUNTERED DURING DRILLING\*

Well Name & Number Wintershall Federal #10-31				
Operator Wintershall H	Petroleum Corp. Address Engle	DTC Boulevard, Ste. 200 wood, CO 80111		
	Illing Co. Address Drawe	r 3337, Farmington, NM		
	1/4 Sec. 10 T. 39S R.	07404		
Water Sands				
<u>Depth</u>	Volume	Quality		
From To	Flow Rate or Head	Fresh or Salty		
1. 3632-3654'	No rate	Salt Water		
2				
3				
5.				
(Conti	nue on reverse side if necessary	)		
Formation Tops Morris Entrac Navajo	da 1080' Upper Ismay	4824' Akah 6108' 5803' 5938'		
Remarks Chinle DeChell Cutler	e 1962' Gothic lly 2850' Upper Desert	6002' Creek 6012'		
NOTE: (a) Report on the and Regulation	is form as provided for in Rule ons and Rules of Practice and Pr	C-20, General Rules		
(b) If a water an please forward	nalysis has been made of the abord a copy along with this form.	ve reported zone,		
Sent 1/21/86				

(other)

Utah

3

## DEPART GE

UNITED STATES DEPARTMENT OF THE INTERIOR	5. LEASE U-50439		
GEOLOGICAL SURVEY	6. IF INDIAN, ALLOTTEE OR TRIBETEN EN		
SUNDRY NOTICES AND REPORTS ON WELLS (Do not use this form for proposals to drill or to deepen or plug back to a different	7. UNIT AGREEMENT NAME NONE  8. FARM OR LEASE NAME JAN 27 1986		
1. oil gas gas	Wintender 1 To Jan 1		
well W well other	9. WELL NO. #10-31 GAS & MINING		
2. NAME OF OPERATOR	#10-31 GAS & MINNING		
Wintershall Petroleum Corporation  3. ADDRESS OF OPERATOR	10. FIELD OR WILDCAT NAME Wildcat		
EC7E pmc pl1 #000 - 1	11 CCO T D W CO CW		

3. ADDRESS OF OPERA 5675 DTC Blvd, #200, Englewood, CO 80111 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 Section 10, T39S-R26E AT SURFACE: 1090' FNL & 820' FEL 12. COUNTY OR PARISH 13. STATE AT TOP PROD. INTERVAL: San Juan AT TOTAL DEPTH: 14. API NO. 16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, 43-037-31227 REPORT, OR OTHER DATA 15. ELEVATIONS (SHOW DF, KDB, AND WD) 5421 'GR; 5435' KB REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF: TEST WATER SHUT-OFF FRACTURE TREAT SHOOT OR ACIDIZE REPAIR WELL PULL OR ALTER CASING MULTIPLE COMPLETE CHANGE ZONES ABANDON\*

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Plugged well as follows per approval of the BLM.

Plug #1 5800-5700' 38 sxs Class B with 2% CaCl.

Plug #2 2950-2850' 50 sxs Class B with 2% CaCl.

Plug #3 2025-1925' 46 sxs Class B with 2% CaCl.

Plug #4 100-Sfc. 38 sxs Class B with 2% CaCl.

Clean pits. Released drilling rig at 10 a.m., 1/19/86. Well plugged and abandoned.

Subsurface Safety Valve: Manu. and	Туре		Set @	Ft.
18. Thereby certify that the foregoing	ng is true and correct			
18. I hereby certify that the foregoing SIGNED Alaced Flore	of TITLE Operations	Mgr. DATE	1/22/86	
	(This space for Federal or State	office use)		
APPROVED BY	TITLE	DATE		······

cc: Utah OGMD

\*See Instructions on Reverse Side

#### SUBMIT IN DUPLICAT UNIT D STATES DEPARTMENT OF THE INTERIOR

structions on reverse side)

	pproved		
Budget	Bureau	Νo.	42-R355.

**2/1**4/86

DATE

5. LEASE DESIGNATION AND SERIAL NO. GEOLOGICAL SURVEY U-50439 6. IF INDIAN, ALLOTTEE OR TRIBE NAME WELL COMPLETION OR RECOMPLETION REPORT AND LOG\* None 1a. TYPE OF WELL: DRY X 7. UNIT AGREEMENT NAME b. TYPE OF COMPLETION: Plugged and None Other Abandoned S. FARM OR LEASE NAME Wintershall Federal 2. NAME OF OPERATOR 9. WELL NO. Wintershall Petroleum Corporation 3. ADDRESS OF OPERATOR #10-31 10. FIELD AND POOL, OR WILDCAT 5675 DTC Blvd., Ste. 200, Englewood, CO 4. LOCATION OF WELL (Report location clearly and in accordance with Wildcat 11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA 1090' FNL - 820' FEL (NANE) **DIVISION OF** At top prod. interval reported below OIL, GAS & MINING Sec. 10, T39S-R26E At total depth DATE ISSUED 12. COUNTY OR PARISH 13. STATE 14. PERMIT NO. 12-2-85 San Juan 43-037-31227 16. DATE T.D. REACHED 17. DATE COMPL. (Ready to prod.) 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\* 19. ELEV. CASINGHEAD P&A'd 1/19/86 5421 GR; 5435 KB 1/1/86 1/17/86 22. IF MULTIPLE COMPL., HOW MANY\* 23. INTERVALS DRILLED BY ROTARY TOOLS CABLE TOOLS 20. TOTAL DEPTH, MD & TVD 21. PLUG, BACK T.D., MD & TVD None Yes No WAS DIRECTIONAL SURVEY MADE 24. PRODUCING INTERVAL(S), OF THIS COMPLETION-TOP, BOTTOM, NAME (MD AND TVD)\* None No 27. WAS WELL CORED 26. TYPE ELECTRIC AND OTHER LOGS RUN Same DLL, LDT/CNT: No SHDT, VSP; BHC CASING RECORD (Report all strings set in well) CEMENTING RECORD CASING SIZE WEIGHT, LB./FT. DEPTH SET (MD) HOLE SIZE AMOUNT PULLED 17-1/2" 50 ¹ 13-3/8" 61# 100 sxs None 9-5/8" 1975.17' 12-1/4" 200 sxs 36# None TUBING RECORD LINER RECORD 30. 29. BOTTOM (MD) SACKS CEMENT\* SCREEN (MD) SIZE DEPTH SET (MD) PACKER SET (MD) SIZE TOP (MD) NONE NONE 31. PERFORATION RECORD (Interval, size and number) ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. 32. DEPTH INTERVAL (MD) AMOUNT AND KIND OF MATERIAL USED NONE NONE PRODUCTION WELL STATUS (Producing or shut-in) DATE FIRST PRODUCTION PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) P&A'd DATE OF TEST PROD'N. FOR TEST PERIOD GAS-OIL RATIO HOURS TESTED CHOKE SIZE OIL-BBL. GAS-MCF. WATER-BBL. CALCULATED 24-HOUR RATE OIL GRAVITY-API (CORR.) FLOW. TUBING PRESS. CASING PRESSURE GAS-MCF. WATER 34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) TEST WITNESSED BY 35. LIST OF ATTACHMENTS Logs sent directly by Schlumberger. Halliburton's Plugging Report.

\*(See Instructions and Spaces for Additional Data on Reverse Side)

TITLE Operations Manager

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

Utah OGMD

SIGNED

# NSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

In office the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval completed, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, or Federal office for specific instructions.

for each additional interval to be separately produced, showing the additional data pertinent to such interval.

| Sacks Cement': Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

| Sacks Cement': Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

	.P	TRUE VERT, DEPTH		<del></del>		<u>, .;</u>						-								-
GEOLOGIC MARKERS	TOP	MEAS. DEPTH	814	1,080'	1,228	1,962	2,850'	2,946	4,824	5,803	5,938	6,012	6,074	,060,9	6,108	6,133	٠			
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MARY OF POROUS ZONES: SHOW ALL IMPOUTANT ZONES OF POROSITY AND CONTENTS THEREOF DEFTH INTERVAL TESTED, CUBHION USED, TIME TOOL OFEN, FLOWIN	воттом		DSTs WERE				evit Presiden													
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37. SUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF DEPTH INTERVAL TESTED, CUSHI	FORMATION															-				



FORM 1906 R9		(15.3) 10.31		PAC	3E 1 OF		PAGES	• Andrew S					
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WE CERTIFY THAT THE FAIR LABOR STANDARDS
ACT OF 1938, AS AMENDED HAS BEEN COMPLIED
WITH IN THE PRODUCTION OF GOODS AND OR
WITH RESPECT TO SERVICES FURNISHED UNDER
THIS CONTRACT.

CUSTOMER



## AND TICKET CONTINUATION

1/18/86	CUSTOMER ORDER NO.	WELL NO. AND FARM	SA	J Jun		STATE	L
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FORM 1908 R-4

## WORK ORDER CONTRACT AND PRE-TREATMENT DATA

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ATTACH TO	コムーニスノ	4
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(a) To pay Halliburton in accord with the rates and terms stated in Halliburton's current price.	i ji keriolik						
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(d) Customer shall be responsible for and secure Halliburton against any and all liability of w a service operation performed by Halliburton hereunder.	rhatsoever nature f	or damages a	is a result of sub	surface trespas	s, or an action in	the nature the	eof, arising from
(e) Customer shall be responsible for and secure Halliburton against any liability for injury to injury to the well), or any damages whatsoever, irrespective of cause, growing out of or in.	or death of persons	, other than	employees of Ha	iliburton, or da	mage to prope	rty (including, t	out not limited to,

- the willful misconduct or gross negligence of Halliburton.
- Halliburton makes no guarantee of the effectiveness of the products, supplies or materials, nor of the results of any treatment or service.
- Customer shall, at its risk and expense, attempt to recover any Halliburton equipment, tools or instruments which are lost in the well and if such equipment, tools or instruments are not recover Customer shall pay Halliburton its replacement cost unless such loss is due to the sole negligence of Halliburton. If Halliburton equipment, tools or instruments are damaged in the well, Customer shall pay Halliburton the lesser of its replacement cost or the cost of repairs unless such damage is caused by the sole negligence of Halliburton. In the case of equipment, tools or instruments for marine operations, Customer shall, in addition to the foregoing, be fully responsible for loss of or damage to any of Halliburton's equipment, tools or instruments which occurs at any time after delivery to Customer at the landing until returned to the landing, unless such loss or damage is caused by the sole negligence of Halliburton.
- Because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others. Halliburton is unable to guarantee the accuracy of any chart in interpreting it, but Customer agrees that Halliburton shall not be responsible for any damages arising from the use of such information except where due to Halliburton's gross negligence or willful misconduct in the preparation or furnishing of it.
- Halliburton warrants only title to the products, supplies and materials and that the same are free from defects in v anship and materials. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTIABILITY, FITNESS OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's liability and Customer's exclusive remedy in any cause of action (whether in contract, tort, breach of warranty or otherwise) arising out of the sale or use of any products, supplies or materials in expressly limited to the replacement of such products, supplies or materials on their return to Halliburton or, at Halliburton's option, to the allowance to the Customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, indirect, punitive or consequental damages.
- Invoices payable NET by the 20th of the following month after date of invoice. Upon Customer's default in payment of Customer's account by the last day of the month following the month in which the invoice is dated. Customer agrees to pay interest thereon after default at the highest lawful contract, rate applicable but never to exceed 18% per annum. In the event it becomes necessary to employ an attorney to enforce collection of said account, Customer agrees to pay all collection costs and attorney fees in the amount of the amount of the unpaid account.
- (k) This contract shall be governed by the law of the state where services are performed or equipment or materials are furnished.
- Halliburton shall not be yound by any changes or modifications in this contract, except where such change or modification is made in writing by a duly authorized executive officer of Halliburton VE READ AND UNDERSTAND THIS CONTRACT AND REPRESENT

THAT I AM AUTHORIZED TO SIGN THE SAME AS CUSTOMER'S AGENT SIGNED

# HALLIBURTON SERVICES JOB SUMMARY

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HALLIBURTON SERVICES

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